

Serial No.: 09/453,726

Filed: 2 December 1999

For: HYDROGEN PEROXIDE INDICATOR AND METHOD

~~Luxol brilliant green BL, Disperse blue 1, Brilliant blue R, Victoria blue R,~~
Quinea green B, Thionin, Meldolas blue, Methylene green, Lissamine green B,
Alkali blue 6B, Brilliant green, Spirit soluble HLK BASF, Victoria green S
extra, Acid violet 17, Eriochrome black T, Eriochrome blue black B, D & C
green no. 2, Spirit soluble fast RR, Spirit soluble fast red 3B, D & C red no. 22,
Nitro red, Congo red, Brilliant cresyl blue ALD, Arsenazo 1, Basic red 29,
Bismarck brown R, Methylene violet, Methylene violet 3RAX, Mordant brown
1, Reactive black 5, Mordant brown 48, Acid brown AX987, Acid violet AX990,
Basic red 15, Mordant red 19, Bromopyrogallol red, and combinations thereof.

Please replace the paragraph beginning at page 2, line 17, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

Preferably, the colorant is selected from the group consisting of Ethyl
violet, New fuchsin, Toluidine blue O, Luxol brilliant green BL, Disperse blue 1,
Brilliant blue R, Quinea green B, Thionin, Meldolas blue, Methylene green,
Lissamine green B, Alkali blue 6B, Brilliant green, Spirit soluble HLK BASF,
Victoria green S extra, Acid violet 17, Eriochrome black T, Eriochrome blue
black B, D & C green no. 2, Spirit soluble fast RR, Spirit soluble fast red 3B, D
& C red no. 22, Nitro red, Congo red, Brilliant cresyl blue ALD, Arsenazo 1,
Basic red 29, Bismarck brown R, Methylene violet, Methylene violet 3RAX,
Mordant brown 1, Reactive black 5, Mordant brown 48, Acid brown AX987,
Acid violet AX990, Mordant red 19, Bromopyrogallol red, and combinations
thereof.

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Please replace the paragraph beginning at page 2, line 28, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

In a preferred embodiment the present invention provides a hydrogen peroxide indicator that includes a substrate and an indicator composition disposed thereon, wherein the indicator composition includes a binder, at least one colorant selected from the group consisting of Malachite green oxalate, Crystal violet, Methyl violet 2B, Ethyl violet, New fuchsin, Victoria blue B, Victoria pure blue BO, Toluidine blue O, Luxol brilliant green BL, Disperse blue 1, Brilliant blue R, Victoria blue R, Quinea green B, Thionin, Meldolas blue, Methylene green, Lissamine green B, Alkali blue 6B, Brilliant green, Spirit soluble HLK BASF, Victoria green S extra, Acid violet 17, Eriochrome black T, Eriochrome blue black B, D & C green no. 2, Spirit soluble fast RR, Spirit soluble fast red 3B, D & C red no. 22, Nitro red, Congo red, Brilliant cresyl blue ALD, Arsenazo 1, Basic red 29, Bismarck brown R, Methylene violet, Methylene violet 3RAX, Mordant brown 1, Reactive black 5, Mordant brown 48, Acid brown AX987, Acid violet AX990, Basic red 15, Mordant red 19, Bromopyrogallol red, and combinations thereof, and at least one colorant that does not change color upon contact with hydrogen peroxide vapor.

Please replace the paragraph beginning at page 4, line 23, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

Suitable colorants for use in the indicator compositions of the present invention include the following: Malachite green oxalate, Crystal violet, Methyl violet 2B, Ethyl violet, New fuchsin, Victoria blue B, Victoria pure blue BO, Toluidine blue O, Luxol brilliant green BL, Disperse blue 1, Brilliant blue R,

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~~Victoria blue R, Quinea green B, Thionin, Meldolas blue, Methylene green,~~
Lissamine green B, Alkali blue 6B, Brilliant green, Spirit soluble HLK BASF,
Victoria green S extra, Acid violet 17, Eriochrome black T, Eriochrome blue
black B, D & C green no. 2, Spirit soluble fast RR, Spirit soluble fast red 3B, D
& C red no. 22, Nitro red, Congo red, Brilliant cresyl blue ALD, Arsenazo 1,
Basic red 29, Bismarck brown R, Methylene violet, Methylene violet 3RAX,
Mordant brown 1, Reactive black 5, Mordant brown 48, Acid brown AX987,
Acid violet AX990, Basic red 15, Mordant red 19, and Bromopyrogallol red.
Alternative names and Color Index Numbers for these colorants are listed in
Tables 1 and 2 below. Various combinations of these colorants can be used in
the indicator compositions of the present invention. Such mixtures or blends
would increase the options available in color changes dramatically.

Please replace the paragraph beginning at page 5, line 8, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

A preferred group of colorants include the following: Ethyl violet, New fuchsin, Toluidine blue O, Luxol brilliant green BL, Disperse blue 1, Brilliant blue R, Quinea green B, Thionin, Meldolas blue, Methylene green, Lissamine green B, Alkali blue 6B, Brilliant green, Spirit soluble HLK BASF, Victoria green S extra, Acid violet 17, Eriochrome black T, Eriochrome blue black B, D & C green no. 2, Spirit soluble fast RR, Spirit soluble fast red 3B, D & C red no. 22, Nitro red, Congo red, Brilliant cresyl blue ALD, Arsenazo 1, Basic red 29, Bismarck brown R, Methylene violet, Methylene violet 3RAX, Mordant brown 1, Reactive black 5, Mordant brown 48, Acid brown AX987, Acid violet AX990, Mordant red 19, Bromopyrogallol red, and combinations thereof.

Please replace the paragraph beginning at page 5, line 18, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

Another preferred group of colorants include the following: Malachite green oxalate, Methyl violet 2B, New fuchsin, Toluidine blue O, Luxol brilliant green BL, Quinea green B, Thionin, Meldolas blue, Lissamine green B, Alkali blue 6B, Brilliant green, Victoria green S extra, Eriochrome blue black B, Congo red, Bismarck brown R, Methylene violet, Methylene violet 3RAX, Bromopyrogallol red, and combinations thereof.

Please replace the paragraph beginning at page 5, line 24, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

Suitable colorants become colorless or change to a different color upon exposure to hydrogen peroxide vapor. Preferred are those colorants that show good contrast between the initial color and the color after exposure to hydrogen peroxide vapor. Examples include, Malachite green oxalate, Methyl violet 2B, New fuchsin, Quinea green B, Thionin, Meldolas blue, Lissamine green B, Alkali blue 6B, Congo red, Eriochrome blue black B, Bismarck brown R, Methylene violet 3RAX, and combinations thereof.

Please replace the portion of Table 1 at page 13 with the following table. Per 37 C.F.R. §1.121, this table is shown in Appendix A with notations to indicate changes made.

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10	¹ Disperse blue 1 (<i>Solvent blue 18</i> or <i>Celliton blue extra</i>)	Anthraquinone	46500	Royal Blue	More gray	Dark gray blue
11	¹ Brilliant blue R (<i>Acid blue 83</i> or <i>Coomassie brilliant blue R</i>)	Methane	42660	Blue	No Change	Lighter
12	¹ Victoria blue R (<i>Basic blue 11</i>)	Methane	44040	Royal blue	Slightly Lighter	Lighter
13	¹ Quinea green B (<i>Acid green 3</i>)	Methane	42085	Green	Pale green	Very pale green
14	¹ Thionin (<i>Lauth's violet</i>)	Thiazine	52000	Blue	No Change	Light gray
15	¹ Meldolas blue	Oxazine	51175	Dark lilac	Slightly Lighter	Pale beige
16	¹ Methylene green	Thiazine	52020	Light blue	None	Very Pale blue